



TORQ Analysis of Sawing Machine Setters, Operators, and Tenders, Wood to Woodworking Machine Setters, Operators, and Tenders, Except Sawing

INPUT SECTION:

Transfer	Title	O* NET	Filters		
From Title:	Sawing Machine Setters, Operators, and Tenders, Wood	51-7041.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	51-7042.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

91

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	86	Level	94	Level	93

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Reaction Time	60	16	68	No Skills Upgrade Required!				Production and Processing	57	11	71
Auditory Attention	50	16	59								
Response Orientation	46	14	56								
Selective Attention	53	12	56								
Rate Control	44	10	59								
Visualization	51	9	56								
Far Vision	44	7	56								
Manual Dexterity	48	6	62								
Near Vision	51	5	65								
Visual Color Discrimination	41	6	50								
Extent Flexibility	39	4	53								
Speech Recognition	41	4	53								
Oral Comprehension	51	3	62								
Static Strength	42	3	56								
Information Ordering	44	3	53								
Deductive Reasoning	42	3	50								
Problem Sensitivity	44	2	59								



Finger Dexterity	44	2	53
Written Comprehension	44	2	50
Inductive Reasoning	41	2	50
Control Precision	51	1	65
Trunk Strength	42	1	59

LEVEL and IMPT (IMPORTANCE) refer to the Target Woodworking Machine Setters, Operators, and Tenders, Except Sawing. GAP refers to level difference between Sawing Machine Setters, Operators, and Tenders, Wood and Woodworking Machine Setters, Operators, and Tenders, Except Sawing.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Sawing Machine Setters, Operators, and Tenders, Wood	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Importance
Reaction Time	44	60	68
Control Precision	50	51	65
Near Vision	46	51	65
Oral Comprehension	48	51	62
Manual Dexterity	42	48	62
Problem Sensitivity	42	44	59
Arm-Hand Steadiness	48	48	59
Rate Control	34	44	59
Trunk Strength	41	42	59
Auditory Attention	34	50	59
Oral Expression	48	44	56
Flexibility of Closure	41	37	56
Perceptual Speed	41	39	56
Visualization	42	51	56
Selective Attention	41	53	56
Multilimb Coordination	46	44	56
Response Orientation	32	46	56
Static Strength	39	42	56
Far Vision	37	44	56
Speech Clarity	35	35	56
Information Ordering	41	44	53
Finger Dexterity	42	44	53
Extent Flexibility	35	39	53
Speech Recognition	37	41	53
Written Comprehension	42	44	50
Deductive Reasoning	39	42	50
Inductive Reasoning	39	41	50
Visual Color Discrimination	35	41	50



Depth Perception	41	<div></div>	41	<div></div>	50
Skill Level Comparison - Abilities with importance scores over 69					
Description	Sawing Machine Setters, Operators, and Tenders, Wood	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Importance		
Knowledge Level Comparison - Knowledge with importance scores over 69					
Description	Sawing Machine Setters, Operators, and Tenders, Wood	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Importance		
Production and Processing	46	<div></div>	57	<div></div>	71

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Sawing Machine Setters, Operators, and Tenders, Wood	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Description	Sawing Machine Setters, Operators, and Tenders, Wood	Woodworking Machine Setters, Operators, and Tenders, Except Sawing
10+ years	1%	1%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	8%
4-6 years	0%	0%	Master's Degree	0%	0%
2-4 years	8%	2%	Post-Bachelor Cert	0%	0%
1-2 years	11%	24%	Bachelors	0%	0%
6-12 months	13%	26%	AA or Equiv	0%	8%
3-6 months	12%	14%	Some College	1%	0%
1-3 months	12%	19%	Post-Secondary Certificate	10%	3%
0-1 month	11%	2%	High School Diploma or GED	40%	70%
None	29%	9%	No HSD or GED	48%	8%

Sawing Machine Setters, Operators, and Tenders, Wood

Woodworking Machine Setters, Operators, and Tenders, Except Sawing

Most Common Educational/Training Requirement:

Moderate-term on-the-job training

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Job Zone Comparison

2 - Job Zone Two: Some Preparation Needed

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Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.

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These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.

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Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

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Tasks



Sawing Machine Setters, Operators, and Tenders, Wood

Core Tasks

Generalized Work Activities:

- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

Specific Tasks

Occupation Specific Tasks:

- Adjust bolts, clamps, stops, guides, and table angles and heights, using hand tools.
- Adjust saw blades, using wrenches and rulers, or by turning handwheels or pressing pedals, levers, or panel buttons.
- Clear machine jams, using hand tools.
- Count, sort, and stack finished workpieces.
- Cut grooves, bevels, and miters, saw curved or irregular designs, and sever or shape metals, according to specifications or work orders.
- Dispose of waste material after completing work assignments.
- Examine blueprints, drawings, work orders, or patterns to determine equipment set-up and selection details, procedures to be used, and dimensions of final products.
- Examine logs or lumber in order to plan the best cuts.
- Guide workpieces against saws, saw over workpieces by hand, or operate automatic feeding devices to guide cuts.
- Inspect and measure workpieces to mark for cuts and to verify the accuracy of cuts, using rulers, squares, or caliper rules.
- Inspect stock for imperfections and to estimate grades or qualities of stock or workpieces.

Woodworking Machine Setters, Operators, and Tenders, Except Sawing

Core Tasks

Generalized Work Activities:

- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

Specific Tasks

Occupation Specific Tasks:

- Adjust machine tables or cutting devices and set controls on machines to produce specified cuts or operations.
- Attach and adjust guides, stops, clamps, chucks, and feed mechanisms, using hand tools.
- Change alignment and adjustment of sanding, cutting, or boring machine guides in order to prevent defects in finished products, using hand tools.
- Clean and maintain products, machines, and work areas.
- Control hoists to remove parts or products from work stations.
- Determine product specifications and materials, work methods, and machine setup requirements, according to blueprints, oral or written instructions, drawings, or work orders.
- Examine finished workpieces for smoothness, shape, angle, depth-of-cut, and conformity to specifications, and verify dimensions, visually and using hands, rules, calipers, templates, or gauges.
- Examine raw woodstock for defects, and to ensure conformity to size and other specification standards.
- Feed stock through feed mechanisms or conveyors into planing, shaping, boring, mortising, or sanding machines to produce desired components.
- Inspect and mark completed workpieces



- Lubricate and clean machines, using wrenches, grease guns, and solvents.
- Measure and mark stock for cuts.
- Monitor sawing machines, adjusting speed and tension and clearing jams to ensure proper operation.
- Mount and bolt sawing blades or attachments to machine shafts.
- Operate panelboards of saw and conveyor systems to move stock through processes, and to cut stock to specified dimensions.
- Position and clamp stock on tables, conveyors, or carriages, using hoists, guides, stops, dogs, wedges, and wrenches.
- Pull tables back against stops, and depress pedals to advance cutterheads that shape stock ends.
- Select saw blades, types and grades of stock, and cutting procedures to be used, according to work orders or supervisors' instructions.
- Set up, operate, or tend saws and machines that cut or trim wood to specified dimensions, such as circular saws, band saws, multiple-blade sawing machines, scroll saws, rip saws, and crozer machines.
- Sharpen blades or replace defective or worn blades and bands, using hand tools.
- Trim lumber to straighten rough edges and remove defects, using circular saws.
- Unclamp and remove finished workpieces from tables.
- Unload and roll logs from trucks to sawmill decks or to carriages, or move logs in ponds, using pike poles.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- clean equipment or machinery
- examine products or work to verify conformance to specifications
- fell or buck trees
- grade, classify, or sort products according to specifications
- inspect machinery or equipment to determine adjustments or repairs needed
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- measure, weigh, or count products or materials
- move or fit heavy objects

and stack them on pallets, in boxes, or on conveyors so that they can be moved to the next workstation.

- Inspect pulleys, drive belts, guards, and fences on machines to ensure that machines will operate safely.
- Install and adjust blades, cutterheads, boring-bits, or sanding-belts, using hand tools and rules.
- Monitor operation of machines, and make adjustments to correct problems and ensure conformance to specifications.
- Operate gluing machines to glue pieces of wood together, or to press and affix wood veneer to wood surfaces.
- Push or hold workpieces against, under, or through cutting, boring or shaping mechanisms.
- Remove and replace worn parts, bits, belts, sandpaper, and shaping tools.
- Secure woodstock against a guide or in a holding device, place woodstock on a conveyor, or dump woodstock in a hopper to feed woodstock into machines.
- Select knives, saws, blades, cutter heads, cams, bits, or belts, according to workpiece, machine functions, and product specifications.
- Set up, program, and control computer-aided design (CAD) or computer numerical control (CNC) machines.
- Set up, program, operate, or tend computerized or manual woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood-nailing machines.
- Sharpen knives, bits, and other cutting and shaping tools.
- Start machines and move levers to engage hydraulic lifts that press woodstocks into desired forms, and disengage lifts after appropriate drying times.
- Start machines, adjust controls, and make trial cuts to ensure that machinery is operating properly.
- Trim wood parts according to specifications, using planes, chisels, and wood files or sanders.
- Unclamp workpieces and remove them from machines.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- attach or mark identification onto products or containers
- clean equipment or machinery
- clean rooms or work areas
- cut, shape, fit, or join wood or other



- operate hoist, winch, or hydraulic boom
- operate woodworking equipment/machinery
- read blueprints
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- recognize wood species characteristics
- set up production equipment or machinery
- sort manufacturing materials or products
- understand technical operating, service or repair manuals
- use chain saws
- use fire suppression equipment
- use hand or power tools
- use precision measuring tools or equipment

Construction Materials

- examine products or work to verify conformance to specifications
- inspect machinery or equipment to determine adjustments or repairs needed
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- monitor production machinery/equipment operation to detect problems
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- operate lathes
- operate woodworking equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read blueprints
- read production layouts
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- set up computer numerical control machines
- set up production equipment or machinery
- understand technical operating, service or repair manuals
- use hand or power tools
- use hand or power woodworking tools
- use precision measuring tools or equipment

Labor Market Comparison

Description	Sawing Machine Setters, Operators, and Tenders, Wood	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Difference
Median Wage	\$ 24,790	\$ 23,040	\$(1,750)
10th Percentile Wage	\$ 18,890	\$ 16,810	\$(2,080)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,970	\$ 28,300	\$(1,670)
90th Percentile Wage	\$ 35,380	\$ 33,900	\$(1,480)
Mean Wage	\$ 25,920	\$ 24,150	\$(1,770)
Total Employment - 2007	700	900	200

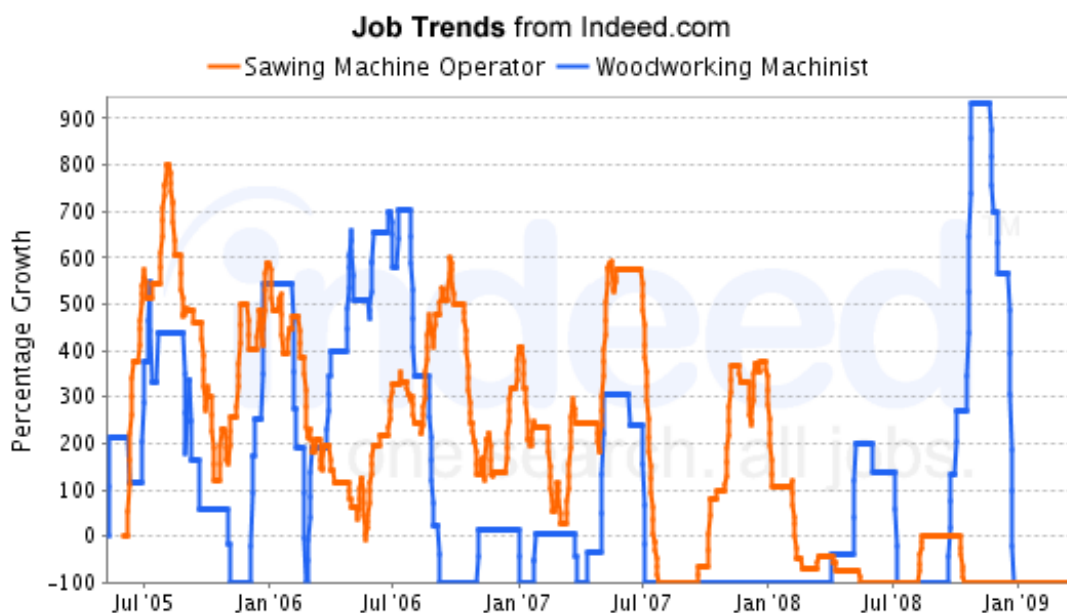


Employment Base - 2006	765	926	161
Projected Employment - 2016	706	815	109
Projected Job Growth - 2006-2016	-7.7 %	-12.0 %	-4.3 %
Projected Annual Openings - 2006-2016	15	23	8

National Job Posting Trends

Trend for Sawing Machine Setters, Operators, and Tenders, Wood

Trend for
Woodworking
Machine
Setters,
Operators,
and Tenders,
Except
Sawing



Data from [Indeed](http://Indeed.com)

Recommended Programs

Woodworkers, General

Woodworking, General. A program that generally prepares individuals to apply technical knowledge and skills to lay out and shape stock; assemble wooden articles or subassemblies; mark, bind, saw, carve, and sand wooden products; repair wooden articles, and use a variety of hand and power tools.

No schools available for the program

Cabinet Maker and Millworker

Cabinetmaking and Millwork/Millwright. A program that prepares individuals to apply technical knowledge and skills to set up, operate and repair industrial woodworking machinery, and to use such machinery to design and fabricate wooden components and complete articles.

No schools available for the program



Maine Statewide Promotion Opportunities for Sawing Machine Setters, Operators, and Tenders, Wood

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
51-7041.00	Sawing Machine Setters, Operators, and Tenders, Wood	100	2	700	\$24,790.00	\$0.00	-8%	15
51-4121.06	Welders, Cutters, and Welder Fitters	91	2	1,610	\$38,030.00	\$13,240.00	7%	49
51-4034.00	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91	3	110	\$34,350.00	\$9,560.00	-9%	2
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	90	2	260	\$28,330.00	\$3,540.00	-7%	5
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	90	2	910	\$38,230.00	\$13,440.00	-26%	23
53-7063.00	Machine Feeders and Offbearers	88	1	480	\$26,820.00	\$2,030.00	-22%	9
51-2031.00	Engine and Other Machine Assemblers	88	3	20	\$29,010.00	\$4,220.00	-45%	1
51-9032.00	Cutting and Slicing Machine Setters, Operators, and Tenders	88	2	710	\$31,350.00	\$6,560.00	-23%	12
51-5011.00	Bindery Workers	87	2	350	\$26,130.00	\$1,340.00	-20%	5
51-9191.00	Cementing and Gluing Machine Operators and Tenders	87	1	80	\$27,620.00	\$2,830.00	-15%	2
51-2021.00	Coil Winders, Tapers, and Finishers	87	2	90	\$31,910.00	\$7,120.00	-53%	1
51-4022.00	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	87	2	20	\$28,330.00	\$3,540.00	-18%	1
51-4071.00	Foundry Mold and Coremakers	87	2	20	\$25,420.00	\$630.00	0%	1



51-5021.00	Job Printers	86	3	140	\$31,890.00	\$7,100.00	-10%	2
51-5023.00	Printing Machine Operators	86	2	790	\$29,710.00	\$4,920.00	-3%	18

Top Industries for Woodworking Machine Setters, Operators, and Tenders, Except Sawing

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Other wood product manufacturing	321900	36.45%	36,277	37,604	3.66%
Veneer, plywood, and engineered wood product manufacturing	321200	11.85%	11,792	14,125	19.78%
Household and institutional furniture manufacturing	337120	11.01%	10,956	9,170	-16.30%
Wood kitchen cabinet and countertop manufacturing	337110	10.35%	10,303	12,549	21.79%
Sawmills and wood preservation	321100	7.40%	7,366	6,496	-11.81%
Office furniture (including fixtures) manufacturing	337200	6.70%	6,668	6,897	3.43%
Building material and supplies dealers	444100	3.48%	3,466	4,872	40.57%
Self-employed workers, primary job	000601	2.74%	2,725	3,194	17.19%
Lumber and other construction materials merchant wholesalers	423300	1.07%	1,064	1,344	26.35%
Employment services	561300	0.78%	776	1,081	39.22%
Pulp, paper, and paperboard mills	322100	0.43%	428	326	-23.70%
Other furniture related product manufacturing	337900	0.37%	367	422	14.84%
Management of companies and enterprises	551100	0.35%	352	447	26.81%
Medical equipment and supplies manufacturing	339100	0.23%	226	254	12.52%
Ship and boat building	336600	0.17%	165	203	23.12%

Top Industries for Sawing Machine Setters, Operators, and Tenders, Wood

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Other wood product manufacturing	321900	26.55%	17,269	17,901	3.66%
Sawmills and wood preservation	321100	25.90%	16,845	14,856	-11.81%
Veneer, plywood, and engineered wood product manufacturing	321200	12.25%	7,969	9,546	19.78%
Self-employed workers, primary job	000601	7.11%	4,624	5,419	17.19%
Wood kitchen cabinet and countertop manufacturing	337110	5.97%	3,881	4,726	21.79%
Household and institutional furniture manufacturing	337120	5.22%	3,395	2,842	-16.30%



Office furniture (including fixtures) manufacturing	337200	3.32%	2,159	2,233	3.43%
Lumber and other construction materials merchant wholesalers	423300	2.03%	1,317	1,664	26.35%
Building material and supplies dealers	444100	1.42%	922	1,296	40.57%
Employment services	561300	1.09%	708	985	39.22%
Self-employed workers, secondary job	000602	0.90%	584	640	9.51%
Motor vehicle parts manufacturing	336300	0.25%	163	143	-12.42%
Motor vehicle body and trailer manufacturing	336200	0.24%	157	169	7.63%
Management of companies and enterprises	551100	0.12%	80	102	26.80%